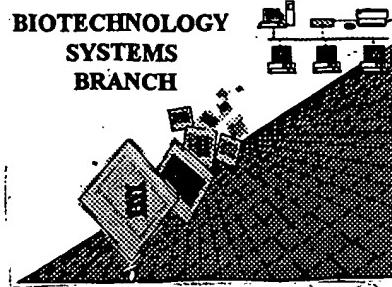


BEST AVAILABLE COPY

5040

#2P



**RAW SEQUENCE LISTING
ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/019,409
Source: PT/10
Date Processed by STIC: 1/22/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY.**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE**

2. **U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202**

3. **Hand Carry directly to:**

**U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202**

Or

**U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202**

4. **Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202**



PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,409

DATE: 01/22/2002
TIME: 10:40:21

Input Set : A:\Es.txt
Output Set: N:\CRF3\01182002\J019409.raw

**Does Not Comply
Corrected Diskette Needed**

2 <110> APPLICANT: Japan as Represented by Secretary of Agency of Industrial Science and
3 Technology
W--> 4 <120> TITLE OF INVENTION: Sulphur Free Enzyme
W--> 5 <130> FILE REFERENCE: PH-911-PCT
W--> 6 <140> CURRENT APPLICATION NUMBER:
C--> 7 <141> CURRENT FILING DATE: 2001-12-28
8 <150> PRIOR APPLICATION NUMBER: JP99/183664
W--> 9 <151> PRIOR FILING DATE: 29-JUN-1999 1999-06-29 ← use this date format
W--> 10 <160> NUMBER OF SEQ ID: 10
11 <170> SOFTWARE: PatentIn Ver. 2.0

Suggestion: Consult Sequence Rule for value format

ERRORRED SEQUENCES

40 <210> SEQ ID NO: 2
41 <211> LENGTH: 566
42 <212> TYPE: DNA
43 <213> ORGANISM: E. coli
44 <221> NAME/KEY: CDS
45 <222> LOCATION: (81)...(557)
W--> 46 <400> SEQUENCE: 2

E--> 47 ggatccttga caatttagtta actatttgtt ataatgtatt cátgagcttä áctaactaat
E--> 48 ccggaaaagg aggaacttcc atgatcagtc tgattgcgc gctagcgta gatcgcgtta
E--> 49 tcggcatgga aaacgccatg ccatggaacc tgcctgcca tctgcctgg tttaaacgca
E--> 50 acacctaataa taaacccgtt attatgggc gccataacctg ggaatcaatc ggtaggcctt
E--> 51 tgccccggccg caaaaatatt atcctcagca gtcaaccccg gaccgatgat cgggttacct
E--> 52 gggttaaatc ggtcgacgaa gccatcgccg cccgagggtga cgtaccagaa atcatggtga
E--> 53 ttggcgcgccc acgcgtttat gaacagttct tgccaaaagc gcaaaagctt tatctgacgc
E--> 54 atatcgatgc agaagtggaa ggcgcacaccc attttccgga ttacgagccg gatgactggg
E--> 55 aatcggtatt cagcgaattc cacgatgctg atgcgcagaa ctgcgcatacg tattcgttcg
E--> 56 aaatcctcga gcgtcgtaa ggatcc

90 <210> SEQ ID NO: 4
91 <211> LENGTH: 558
92 <212> TYPE: DNA
93 <213> ORGANISM: B. subtilis
94 <221> NAME/KEY: CDS
95 <222> LOCATION: (1) .. (555)

W--> 96 <400> SEQUENCE: 4
E--> 97 gctagcacag actactggca aaattggact gatggggcg gtatagtaaa cgctgtcaat
E--> 98 gggtctggcg ggaattacag tgttaattgg tctaataccg gaaattttgt tgttggtaaa
E--> 99 gggtggacta cagggttcgcc atttaggacg ataaaactata atgcccggagt ttgggcgcgg
E--> 100 aatggcaatg gatatttaac tttatatggt tggacgagat cacctctcat agaatattat
E--> 101 gtagtggatt catggggtac ttatagacct actggAACGT ataaaaggtaC tgtaaaaagt

→ L2207 ← Insert this mandatory nucleic
 identifier
 whenever
 used
 ↓
 tatt cátgagcttā actaaactaat
 cggc gctagcggttā gatcgcggttā
 ccga ttcgcctgg tttaaacgcā
 cctg ggaatcaatc ggtaggcctt
 ccgg gaccgatgtat cgggttacct
 gtga cgtaccagaa atcatggtgā
 aaga gcaaaaagctt tatctgacgc
 cggg ttacgagccg gatgactggg
 agaa ctcgcatacg tattcgttcg
 60 < L2217, L2227, or
 120 L2237 as
 shown
 }
 insert <
 cumulative
 }
 nucleotide total.
 at right margin
 of each line

→ (220) L-erint

same error as
above.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,409

DATE: 01/22/2002
TIME: 10:40:21

Input Set : A:\Es.txt
Output Set: N:\CRF3\01182002\J019409.raw

E--> 102 gatggggta catatgacat atatacaact acacgttata acgcaccc tcattgtggc
E--> 103 gatcgacta cttttacgca gtactggagt gttcgccagt cgaagagacc aaccggaaagc
E--> 104 aacgctacaa tcactttcag caatcatgtg aacgcattgga agagccatgg aatgaatctg
E--> 105 ggcagtaatt gggcttacca agtcatggcg acagaaggat atcaaaggat tggctcgctcg
E--> 106 aatgttaccg tatggtaa

same

136 <210> SEQ ID NO: 6
137 <211> LENGTH: 569
138 <212> TYPE: DNA
139 <213> ORGANISM: E. coli
140 <221> NAME/KEY: CDS
141 <222> LOCATION: (81)...(560)

>2207

W--> 142 <400> SEQUENCE: 6

E--> 143 ggatccttga caatttagtta actatttgtt ataatgtatt catgagctta actaactaat
E--> 144 cccggaaaagg aggaacctcc atggcaatca gtctgattgc ggcgctagcg gtagatcgcg
E--> 145 ttatcgccaa cgaaaaacgcc ctccccatgga acctgcctgc cgatctcgcc tgggtttaaac
E--> 146 gcaacacctt aaataaaaccc gtgatttacg ggcgcatac ctgggaatca atcggttaggc
E--> 147 ctttgcggcg ccgcaaaaat attatcctca gcagtcacc cgggaccgat gatcggttta
E--> 148 cctgggttta atcggtcgac gaagccatcg cggccgcagg tgacgtacca gaaatcttcg
E--> 149 tgattggcg ggacgcgtt tatgaacagt tcttgccaaa agcgcääag ctttatctga
E--> 150 cgcataatcgta tgcagaagtg gaaggcgaca cccattttcc ggattacgag cggatgact
E--> 151 gggaaatcggtt attcagcgaa ttccacgtg ctgatgcgca gaactcgcat agctattcgt
E--> 152 tcgaaatccct cgagcgttgt taaggatcc

same
err
as above

208 <210> SEQ ID NO: 8
209 <211> LENGTH: 1153
210 <212> TYPE: DNA

W--> 211 <213> ORGANISM: <- MANDATORY response needed (this error also exists in Segs 7-10)
W--> 212 <400> SEQUENCE: 8

E--> 213 ggatccttga caatttagtta actatttgtt ataatgtatt catgagctta actaactaat
E--> 214 cccggaaaagg aggaacctcc atggcaatca gtctgattgc ggcgctagcg gtagatcgcg
E--> 215 ttatcgccaa cgaaaaacgcc ctccccatgga acctgcctgc cgatctcgcc tgggtttaaac
E--> 216 gcaacacctt aaataaaaccc gtgatttacg ggcgcatac ctgggaatca atcggttaggc
E--> 217 ctttgcggcg ccgcaaaaat attatcctca gcagtcacc cgggaccgat gatcggttta
E--> 218 cctgggttta atcggtcgac gaagccatcg cggccgcagg tgacgtacca gaaatcttcg
E--> 219 tgattggcg ggacgcgtt tatgaacagt tcttgccaaa agcgcääag ctttatctga
E--> 220 cgcataatcgta tgcagaagtg gaaggcgaca cccattttcc ggattacgag cggatgact
E--> 221 gggaaatcggtt attcagcgaa ttccacgtg ctgatgcgca gaactcgcat agctattcgt
E--> 222 tcgaaatccct cgagcgttgt ggtggcggtg gctcggtgg tggccgcgt agcacagact
E--> 223 actggcaaaa ttggactgtat gggggcggtt tagtaaacgc tgtcaatggg tctggcggg
E--> 224 attacagtgt taatttgtct aataccggaa attttgggt tggtaaaggat tggactacag
E--> 225 gttcgccatt taggacgata aactataatg ccggagtttgg ggcgcgcgaaat ggcaatggat
E--> 226 atttaactt atatgttgg acgagatcac ctctcataga atattatgtt gtggattcat
E--> 227 ggggtactta tagacactact ggaacgtata aaggactgtt aaaaagtgtat gggggtacat
E--> 228 atgacatata tacaactaca cgttataacg cacccat tgcgtgcgt cgactactt
E--> 229 ttacgcagta ctggagtgtt cggccgtcgaa agagaccaac cggaaagcaac gctacaatca
E--> 230 ctttcagcaa tcatgtgaac gcatggaa gcatggaaat gaatctgggc agtaattggg
E--> 231 ctttaccaagt catggcgaca gaaggatatc aaagtagtgg ctcgtcgaat gttaccgtat
E--> 232 ggtaaggatc ccc

same
err
(insert
cumulative
nucleotide
total)

288 <210> SEQ ID NO: 10
289 <211> LENGTH: 1153

P.3

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/019,409

DATE: 01/22/2002
TIME: 10:40:21

Input Set : A:\Es.txt
Output Set: N:\CRF3\01182002\J019409.raw

290 <212> TYPE: DNA
W--> 291 <213> ORGANISM: L-Insert mandatory response
W--> 292 <400> SEQUENCE: 10
E--> 293 ggatcccttga caatttagtta actatggtt ataatgtatt catgagctta actaactaat
E--> 294 ccggaaaagg aggaacttcc atggcaatca gtctgattgc ggcgctagcg gttagatcgcg
E--> 295 ttatcggcaa cggaaaacgcc ctcccatggaa acctgcctgc cgatctcgcc tggtttaaac
E--> 296 gcaacaccc tt aaataaaccg gtgatttacg ggcgcccatac ctgggaatca atcggtaggc
E--> 297 ctttgcggccgg ccgcaaaaat attatcctca gcagtcaacc cgggaccgat gatcgggta
E--> 298 cctgggttaa atcgggtcgc ac gaagccatcg cggccgcagg tgacgtacca gaaatcttcg
E--> 299 tgattggcgcc cggacgcgtt tatgaacagt tcttgccaaa agcgcggaaaag ctttatctga
E--> 300 cgcataatcga tgcagaagtg gaaggcgaca cccattttcc ggattacgag ccggatgact
E--> 301 gggaaatcggt attcagcgaa ttccacgatg ctgatgcgcga gaactcgcat agctattcgt
E--> 302 tcgaaatcct cgagcgtcgt ggtggcggtg gctcgggtgg tggccgcgt agcacagact
E--> 303 actgcggaaa ttggactgtat gggggcggtat tagtaaacgc tgtcaatggg tctggccggaa
E--> 304 attacagtgt taattggctt aataccggaa attttgggtt tggtaaagggt tggactacag
E--> 305 gttcgccatt taggacgata aactataatg ccggagtttgg ggcgcccgaat ggcaatggat
E--> 306 atttaacttt atatgggttgg acgagatcac ctctcataga atattatgtat gttggattcat
E--> 307 ggggtactta tagacctact ggaacgtata aaggtactgt aaaaagtgtat gggggtacat
E--> 308 atgacatata tacaactaca cgttataacg caccttcatt tgatggcgat cgcactactt
E--> 309 ttacgcagta ctggagtgtt cggccagtcga agagaccaac cggaaagcaac gctacaatca
E--> 310 ctttcagcaa tcatgtgaac gcatggaaaga gccatggact caatctgggc agtaattggg
E--> 311 cttaccaagt catcgccaca gaaggataatc aaagtagtgg ctgcgtcgaat gttaccgtat
E--> 312 ggttaaggatc ccc

present
cumulative
totals
at right
margin of
each line

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/019,409

DATE: 01/22/2002

TIME: 10:40:22

Input Set : A:\Es.txt

Output Set: N:\CRF3\01182002\J019409.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier
L:5 M:283 W: Missing Blank Line separator, <130> field identifier
L:6 M:283 W: Missing Blank Line separator, <140> field identifier
L:7 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:9 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:10 M:283 W: Missing Blank Line separator, <160> field identifier
L:12 M:283 W: Missing Blank Line separator, <210> field identifier
L:16 M:283 W: Missing Blank Line separator, <400> field identifier
L:46 M:283 W: Missing Blank Line separator, <400> field identifier
L:47 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:2
M:254 Repeated in SeqNo=2
L:62 M:283 W: Missing Blank Line separator, <400> field identifier
L:96 M:283 W: Missing Blank Line separator, <400> field identifier
L:97 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:4
M:254 Repeated in SeqNo=4
L:112 M:283 W: Missing Blank Line separator, <400> field identifier
L:142 M:283 W: Missing Blank Line separator, <400> field identifier
L:143 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:6
M:254 Repeated in SeqNo=6
L:157 M:201 W: Mandatory field data missing, <213> ORGANISM
L:158 M:283 W: Missing Blank Line separator, <400> field identifier
L:211 M:201 W: Mandatory field data missing, <213> ORGANISM
L:212 M:283 W: Missing Blank Line separator, <400> field identifier
L:213 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:8
M:254 Repeated in SeqNo=8
L:237 M:201 W: Mandatory field data missing, <213> ORGANISM
L:238 M:283 W: Missing Blank Line separator, <400> field identifier
L:291 M:201 W: Mandatory field data missing, <213> ORGANISM
L:292 M:283 W: Missing Blank Line separator, <400> field identifier
L:293 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:10
M:254 Repeated in SeqNo=10